

## Certificate of Analysis

| Product Information                 |                                                                     |                  |                |
|-------------------------------------|---------------------------------------------------------------------|------------------|----------------|
| Product Name                        | Hedera Helix Extract Powder                                         | Report Number    | HHP20220233    |
| Botanical Name                      | Hedera helix L.                                                     | Manufacture Date | 2022/02/08     |
| Used Part                           | Leaf                                                                | Analysis Date    | 2022/02/13     |
| Batch Number                        | HHP220208                                                           | Report Date      | 2022/02/18     |
| Batch Quantity                      | 500Kg                                                               | Expiry Date      | 2025/02/07     |
| Test Items                          | Specifications                                                      | Result           | Test Methods   |
| <b>Active Ingredients</b>           |                                                                     |                  |                |
| Assay                               | ≥ 10.0% Hederacosides                                               | 10.72%           | Conforms       |
| <b>Physical &amp; Chemical Data</b> |                                                                     |                  |                |
| Appearance                          | Brown Yellow Fine Powder                                            | Conforms         | Visual         |
| Odor and Taste                      | Characteristic                                                      | Conforms         | Organoleptic   |
| Sieve analysis                      | 90% through 80 mesh                                                 | Conforms         | 80 Mesh Screen |
| Loss on Drying                      | ≤5.0 %                                                              | 3.01%            | 105°C/2 hrs    |
| Total Ash                           | ≤5.0 %                                                              | 0.32%            | GB 5009.6      |
| Bulk Density                        | 40~60g/100mL                                                        | 48.7 g/100mL     | GB/T 18798.5   |
| Tap Density                         | 50~80g/100mL                                                        | 51.2 g/100mL     | GB/T 18798.5   |
| <b>Contaminants</b>                 |                                                                     |                  |                |
| Lead (Pb)                           | <3.0mg/kg                                                           | Conforms         | ICP-MS         |
| Arsenic (As)                        | <2.0mg/kg                                                           | Conforms         | ICP-MS         |
| Cadmium (Cd)                        | <1.0mg/kg                                                           | Conforms         | ICP-MS         |
| Mercury (Hg)                        | <0.1mg/kg                                                           | Conforms         | ICP-MS         |
| <b>Microbiological</b>              |                                                                     |                  |                |
| Total Aerobic Count                 | ≤ 1000cfu/g                                                         | 190cfu/g         | GB 4789.2      |
| Yeast & Moulds                      | ≤ 100cfu/g                                                          | 45cfu/g          | GB 4789.15     |
| E-Coli                              | Negative                                                            | Conforms         | GB 4789.3      |
| Salmonella                          | Negative                                                            | Conforms         | GB 4789.4      |
| Staphylococcus Aureus               | Negative                                                            | Conforms         | GB 4789.10     |
| <b>Conclusion</b>                   |                                                                     |                  |                |
| Conclusion                          | To be complied with in-house Specification                          |                  |                |
| Shelf Life                          | 3 years when properly stored.                                       |                  |                |
| Storage                             | Store in cool & dry place, not freeze. Keep away from strong light. |                  |                |

**Remarks:** This product is natural, the color vary from batch to batch.

Tested by: 张丽娟

Checker: 李明

Approved:

